A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C22C38/18 C22C38/20 C21D9/02 C22C38/22 B60S1/32 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C22C B6OS C21D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1 - 14US 4 022 640 A (TANCZYN HARRY) Α 10 May 1977 (1977-05-10) column 2, line 38-45; claims 1-4 1-14 EP 1 106 705 A (NIPPON STEEL CORP) Α 13 June 2001 (2001-06-13) claims 1-4; table 1 1 - 14US 4 594 115 A (LACOUDE MICHEL ET AL) Α 10 June 1986 (1986-06-10) claims 1-10 1 - 14WO 96 11483 A (CRS HOLDINGS INC) Α 18 April 1996 (1996-04-18) page 7, line 20-23; claims 1-12 Patent family members are listed in annex. Further documents are listed in the continuation of box C. . Special categories of cited documents: 'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "E" earlier document but published on or after the international filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means In the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 02/01/2004 19 December 2003 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Badcock, G

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